

**Application for:**  
**Coastal General Permit #15,**  
**Freshwater Wetlands General Permit #4 and #11,**  
**Flood Hazard Area Verification**  
**Flood Hazard Area Individual Permit and**  
**Flood Hazard Area–Hardship Exception**  
**(pursuant to N.J.A.C. 7:13-9.8)**

**for:**

**Rahway Arch Properties – Site Remediation**  
*(including Soil Safe – Metro 12 Class B Facility as proposed for Rahway Arch  
Properties Site Remediation)*  
**Block 602, Lot 1 & 8; Block 603, Lot 1; Block 705, Lot 17 & 18**  
*(previously known as Block 9.03, Lot 21; Block 10, Lot(s) 8-10, 11, 12-21;  
Block 11.01, Lot(s) 8, 9, 10-14 & 28)*

**Borough of Carteret**  
**Middlesex County, New Jersey**

***Applicant:***

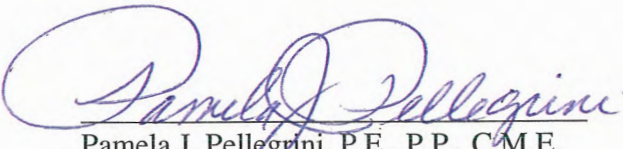
Rahway Arch Properties, LLC  
7 Nottingham Drive  
Florham Park, NJ 07932

***Prepared by:***

J. Timothy Kernan, Inc.  
Kingsway Commons, Suite 100  
935 Kings Highway  
Thorofare, NJ 08086

November 2012

JTK, Inc. File: KE12017

  
Pamela J. Pellegrini, P.E., P.P., C.M.E.  
Director-Special Projects  
NJ Engineer License No. 40878



## PROJECT INTRODUCTION

J. Timothy Kernan, Inc. (JTKI), acting as the land use permitting consultant for Soil Safe, Inc. (reclamation contractor) and Rahway Arch Properties, LLC (property owner) herein applies for a Coastal General Permit #15, Freshwater Wetlands General Permits #4 & #11, a Flood Hazard Area Verification/Individual Permit and a Flood Hazard Area Hardship Exception for authorization to conduct regulated activities associated with the proposed remediation of the Rahway Arch Properties site. The Rahway Arch site consists of approximately 85 acres of previously disturbed land comprised of six impoundments and their surrounding berms; and approximately 40 acres of surrounding wetlands known as Block 602, Lot(s) 1 & 8; Block 603, Lot 1; Block 705, Lot(s) 17 & 18 (*and previously known as Block 9.03, Lot 21; Block 10, Lot(s) 8-10, 11, 12-21; Block 11.01, Lot(s) 8, 9, 10-14 & 28*), in the Borough of Carteret, Middlesex County, New Jersey. The site is bordered to the north, northeast and northwest by the Rahway River and the tidally influenced creeks and wetlands associated with the river; to the south and southeast by a Kinder-Morgan fuel terminal; to the west and southwest by a small equipment salvage yard and the I-Porte trucking terminal.

The site's extensive remedial investigation confirmed that the alum-YPS sludge in the impoundments and the undocumented fill material in the impoundments and on the berms contain metals, cyanide and PAHs above non-residential soil direct contact remediation criteria and soil impact to groundwater screening levels. The groundwater on the site, sampled through the sixteen existing groundwater monitoring wells, is also contaminated with metals and cyanide.

Additionally, the site in its current condition is unusable and poses a safety risk to the public. Geotechnical data showed that the alum-YPS sludge in the impoundments and the underlying peat and clay layers have minimal strength. These layers cannot support a load that would allow the site to be usable. However, the geotechnical report did identify a construction process for capping the site with engineered fill that would allow future development over a portion of the site.

Based upon these results, a Remedial Action Workplan (RAWP) was developed establishing target remediation goals and critical design guidelines necessary to effectively remediate the site in accordance with SRP regulations and guidelines. The target remediation goals include:

- Eliminate direct contact hazard with contaminated surface fill and alum-YPS sludge
- Prevent precipitation from coming in contact with the contaminated materials and discharging to groundwater or surface water.
- Promote runoff and evapotranspiration of precipitation rather than infiltration
- Ensure the long term integrity of the berms
- Eliminate site safety hazards posed by soft soils and sludge and ponded water in the impoundments
- Allow safe passive uses, including habitat, and possible future development on a portion of the site by the property owners, making at least a portion of the site usable.

The critical design guidelines established as necessary to achieve the remediation goals include the following:

- Raising the remediated site above high tide levels of the Rahway River and the 100-year floodplain. Portions of the site are routinely flooded by the Rahway River.
- The existing bathtub-like impoundments that trap precipitation resulting in infiltration through the contaminated materials must be filled and graded to no longer retain water.
- Permeability of the cap must be less than the underlying alum-YPS sludge. The target permeability for the reduced permeability cap is  $2 \times 10^{-6}$  cm/s.
- The site must be graded to cause stormwater to runoff and not infiltrate into the contaminated soil and sludge. At the present time an estimated 25,500,000 gallons of water per year percolate through the contaminated materials into the groundwater. The cap will be designed to eliminate at least 95% of this infiltration.
- Stormwater must be directed to basins where it can be positively discharged to surface water. Recharge of the stormwater through the contaminated materials cannot be permitted.
- The cap must stabilize the existing berms that were installed in the 1930s. These berms were built directly over the meadow mat and do not have center cores to prevent infiltration of water from the impoundments through the berms. Engineered fill material with structural properties is required to stabilize these berms.
- The cap must provide a stable surface to eliminate the existing, unsafe, very soft conditions with the alum-YPS sludge.
- The cap must provide a barrier layer to prevent direct contact and windblown dust exposure hazards that currently exist on the site.

Therefore, per the Remedial Action Workplan, an engineered fill cap is necessary to achieve the goals of the site remediation. As such, the proposed remediation activities will include 1) the construction of an on-site Class B Recycling facility to manufacture the required engineered structural fill, 2) grading operations for the capping and filling of the existing sludge disposal impoundments and 3) stormwater runoff management. No other viable remediation option, other than capping the site with a reduced permeability material, exists that would accomplish these goals.

# Table of Contents

**Section I** LURP #2 Permit Application Form

**Section II** Application Checklists

- Coastal General Permit
- Freshwater Wetlands General Permit
- Flood Hazard Verification
- Flood Hazard Area Individual Permit

**Section III** Fee Calculation Worksheets

**Section IV** Site Mapping

- USGS Site Location Map
- Road Map
- Tax Map
- Soils Map
- Aerial Map
- FEMA-FIRM

**Section V** Coastal General Permit #15 Compliance Statement

- 1.0 Introduction
- 2.0 Applicable Coastal Zone Management Rules under N.J.A.C. 7:7E
- 3.0 Subchapter 3: Special Areas
- 4.0 Subchapter 4: General Water Areas
- 5.0 Subchapter 6: General Location Rules
- 6.0 Subchapter 7: Use Rules
- 7.0 Subchapter 8: Resource Rules
- 8.0 Mitigation under N.J.A.C. 7:7E
- 9.0 Compliance with Coastal Permit Program Rules under N.J.S.A. 7:7
- 10.0 Summary of Compliance

**Section VI** Freshwater Wetlands General Permit #4 & #11 Compliance Statement

- 1.0 Introduction
- 2.0 Project Description
- 3.0 Regulated Activities
- 4.0 Compliance with Conditions that Apply to All General Permits (N.J.A.C. 7:7A-4.3)
- 5.0 Compliance with Requirements for General Permit 4
  - Hazardous Site Investigation and Clean up (N.J.A.C. 7:7A-5.4)
- 6.0 Compliance with Requirements for General Permit 11
  - Outfalls and Intake Structures (N.J.A.C. 7:7A-5.11)
- 7.0 Conclusion



# Table of Contents

## **Section VII** Flood Hazard Area Environmental Report

- 1.0** Project Description
- 2.0** Potential Adverse Impact Analysis
  - 2.1 Channel (N.J.A.C. 7:13-10.2)
  - 2.2 Riparian Zone (N.J.A.C. 7:13-10.2)
  - 2.3 Fishery Resources (N.J.A.C. 7:13-10.5)
  - 2.4 Threatened and Endangered Species (N.J.A.C. 7:13-10.6)
  - 2.5 Regulated Waters
- 3.0** Jurisdiction
- 4.0** Alternative Analysis
- 5.0** Measures to Reduce Temporary and Permanent Detrimental Impacts
- 6.0** Mitigation Plan

## **Section VIII** Flood Hazard Area Engineering Report

- 1.0** Project Description
- 2.0** Determining the Flood Hazard Area and Floodway (N.J.A.C. 7:13-3.4)
- 3.0** Determining the Riparian Zone (N.J.A.C. 7:13-4.1)
- 4.0** General Provisions for Verifications (N.J.A.C. 7:13-6.1)
- 5.0** General Provisions for Individual Permits (N.J.A.C. 7:13-9.1)
- 6.0** Individual Permit Requirements Within Various Regulated Areas (N.J.A.C. 7:13-10)
  - 6.1 Channel
  - 6.2 Riparian Zone
  - 6.3 Floodway
  - 6.4 Flood Fringe
  - 6.5 Fishery Resources
  - 6.6 Threatened or Endangered Species
  - 6.7 Acid Producing Soils
- 7.0** Individual Permit Requirements for Various Regulated Activities (N.J.A.C. 7:13-11)
  - 7.1** Requirements that Apply to All Regulated Activities
    - 7.1.1 Potential Adverse Impact
    - 7.1.2 Soil Erosion and Sediment Control
  - 7.2** Requirements for Stormwater Management
  - 7.3** Requirements for Excavation and Filling
  - 7.4** Requirements for a Building
  - 7.5** Requirements for a Railroad, Roadway or Parking
  - 7.6** Requirements for a Stormwater Outfall
  - 7.7** Requirements for the Placement, Storage or Processing of Solid Waste



# Table of Contents

<b>Section IX</b>	Public Notice Documentation
<b>Section X</b>	Color Photographs of Site
<b>Section XI</b>	Copy of Deed and Other Relevant Documents <ul style="list-style-type: none"><li>• Deed</li><li>• Access Easement</li><li>• Letter of Interpretation (LOI)</li><li>• Remediation Agreements (Refer to Appendix E of the Flood Hazard Area Hardship Exception)</li><li>• Supplemental Reports (Refer to Appendix D of the Flood Hazard Area Hardship Exception)</li><li>• Previous Approvals (Refer to Appendix B of the Flood Hazard Area Hardship Exception)</li></ul>
<b>Section XII</b>	Threatened and Endangered Species Information (National Database Search Results)
<b>Section XIII</b>	Tidelands Correspondence
<b>Section XIV</b>	Army Corp of Engineers Correspondence
<b>Section XV</b>	Qualifications of Preparers

## **Enclosed Separately:**

- Plans entitled “LAND USE PERMITTING PLANS FOR RAHWAY ARCH PROPERTIES-SITE REMEDIATION” as prepared by J. Timothy Kernan, Inc., Sheets 1-20, dated November 29, 2012
- Photo Location Plan, as prepared by J. Timothy Kernan, Inc., Sheet 1 of 1, dated November 29, 2012
- Stormwater Management Report for Rahway Arch Properties-Site Remediation as prepared by J. Timothy Kernan, Inc., dated November 29, 2012
- Flood Hazard Area-Hardship Exception Request Report as prepared by J. Timothy Kernan, Inc., dated November 29, 2012

**Section I**  
**LURP #2 Permit Application Form**





**State of New Jersey**  
**Department of Environmental Protection**  
Division of Land Use Regulation Application Form (LURP-2)  
Division of Land Use Regulation  
501 E. State Street Mail Code 501-02A P.O. Box 420  
Trenton, NJ 08625-0420  
www.nj.gov/dep/landuse



**PLEASE PRINT OR TYPE THE FOLLOWING:** (Complete all sections unless otherwise noted)

1. **Applicant Name:** Rahway Arch Properties, LLC Email: maritimellc@aol.com

Address: 7 Nottingham Drive City: Florham Park

State: NJ Zip: 07932 Daytime Phone: 973-593-0154 Ext.:  Cell Phone: 201-400-6878

2. **Agent Name:** Pamela J. Pellegrini Firm: Kernan Consulting Engineers Email: ppellegrini@kernaneng.com

Address: 935 Kings Highway, Suite 100 City: Thorofare

State: NJ Zip: 08086 Daytime Phone: 856-251-9500 Ext.: 114 Cell Phone: 609-381-1186

3. **Property Owner Name:** (same as applicant) Email:

Address :  City:

State:  Zip:  Daytime Phone:

4. **Project Name:** Rahway Arch Properties – Site Remediation Site Location (Street Address): Salt Meadow Road

Zip: 07008 Municipality: Borough of Carteret County: Middlesex

Block(s): 602; 603; 705 (prev. 903; 10; 11.01) Lot(s): 1 & 8; 1; 17 & 18 (prev. 21; 8-10, 11, 12-21; 8,9, 10-14 & 28)

N.A.D. 1983 State Plane Coordinates (feet) 6 digits only: E (x): 571075 N (y): 643239

Nearest Waterway: Rahway River Watershed: Woodbridge Creek Subwatershed: Rahway River (below Robinson's Creek)

5. **Fees:** Total Fee: \$8,580 Project Cost:  Check No: #55266

6. **Project Description:** Proposed remediation activities to effectively cap and rehabilitate this former disposal site encompassing approx. 85 acres of the overall 125 acre site in accordance with the requirements of SRRA and under the direction of a NJ Licensed Site Remediation Professional (LSRP).

7. **Application(s) for:** Check all that apply (Please follow directions on page 5)

	Application Type	Fee Amt	Amt Paid
	<b>Flood Hazard Area</b>		
<input checked="" type="checkbox"/>	FHA Verification	\$500	\$500
<input checked="" type="checkbox"/>	FHA Individual Permit	\$5000	\$5000
<input type="checkbox"/>	FHAGP1 / Chan Clean w/o Sed Removal	No Fee	No Fee
<input type="checkbox"/>	FHAGP1 / Chan Clean w/Sed Removal	No Fee	No Fee
<input type="checkbox"/>	FHAGP2A / Ag - Bank Restoration		
<input type="checkbox"/>	FHAGP2B / Ag - Channel Cleaning		
<input type="checkbox"/>	FHAGP2C / Ag - Road Crossing		
<input type="checkbox"/>	FHAGP2D / Ag - Wetlands Restoration		
<input type="checkbox"/>	FHAGP2E / Ag - Livestock Ford		
<input type="checkbox"/>	FHAGP2F / Ag - Livestock Fence		
<input type="checkbox"/>	FHAGP2G / Ag - Livestock Water Intake		
<input type="checkbox"/>	FHAGP3 / Bridge/Culvert Scour Protection		

	Application Type	Fee Amt	Amt Paid
	<b>Flood Hazard Area</b>		
<input type="checkbox"/>	FHAGP4 / Stormwater Maintenance		
<input type="checkbox"/>	FHAGP5 / Building Relocation		
<input type="checkbox"/>	FHAGP6 / Rebuild Damaged Home	No Fee	No Fee
<input type="checkbox"/>	FHAGP7 / Residential in Tidal FHA		
<input type="checkbox"/>	FHAGP8 / Utility Crossing <50acres		
<input type="checkbox"/>	FHAGP9 / Road Crossing <50acres		
<input type="checkbox"/>	FHAGP10 / Stormwater Outfall <50acres		
<input type="checkbox"/>	Revision of a GP, IP or Verification		
<input type="checkbox"/>	Transfer of an Approval		
<input type="checkbox"/>	FHA Ind Permit Equivalency/CERCLA		
	<b>Stormwater Review Fees</b>		
<input checked="" type="checkbox"/>	Fee for all Stormwater Reviews	\$2000	\$2000

Revised 06/30/2011

	Application Type	Fee Amt	Amt Paid
	<b>Applicability Determination</b>		
<input type="checkbox"/>	Coastal Jurisdictional Determination	No Fee	No Fee
<input type="checkbox"/>	Highlands Jurisdictional Determination	No Fee	No Fee
<input type="checkbox"/>	Flood Hazard Area Applicability	No Fee	No Fee
<input type="checkbox"/>	Executive Order 215	No Fee	No Fee
	<b>CAFRA</b>		
<input type="checkbox"/>	Individual Permit		
<input type="checkbox"/>	Exemption Request		
<input type="checkbox"/>	Permit Modification		
<input type="checkbox"/>	CAFGP5 / Amusement Pier Exp		
<input type="checkbox"/>	CAFGP6 / Beach/Dune Maintenance		
<input type="checkbox"/>	CAFGP7 / Voluntary Reconstruction		
<input type="checkbox"/>	CAFGP8 / New Single Family or Duplex		
<input type="checkbox"/>	CAFGP9 / Reconstruct Single Fam/Dup		
<input type="checkbox"/>	CAFGP10 / New Bulkhead/Fill Lagoon		
<input type="checkbox"/>	CAFGP11 / Revetment		
<input type="checkbox"/>	CAFGP12 / Gabions		
<input type="checkbox"/>	CAFGP13 / Support Facilities/ Marina		
<input type="checkbox"/>	CAFGP14 / Reconst Bulkhead A/MHWL		
<input checked="" type="checkbox"/>	CAFGP15 / Hazard Waste Clean-up	\$600 (75%)	\$450
<input type="checkbox"/>	CAFGP16 / Landfall of Utilities		
<input type="checkbox"/>	CAFGP17 / Recreat Facility Public Park		
<input type="checkbox"/>	CAFGP18/BulkheadConstuct/Fill upland		
<input type="checkbox"/>	CAFGP21 / Shoreline Stabilization		
<input type="checkbox"/>	CAFGP22 / Avian Nesting Structures		
<input type="checkbox"/>	CAFGP23 / Electrical Sub Facility		
<input type="checkbox"/>	CAFGP24 / Legalize Filling of Tidelands		
<input type="checkbox"/>	CAFGP25 / Construct Telecom Tower		
<input type="checkbox"/>	CAFGP26 / Tourism Ind Construction		
<input type="checkbox"/>	CAFGP27 / Geotechnical Borings		
<input type="checkbox"/>	CAFGP29 / Habitat Creation/Enhance		
<input type="checkbox"/>	CAFGP30 / 1 to 3 Turbines < 200 Feet		
<input type="checkbox"/>	CAFGP31 / Wind Turbines < 250 Feet		
<input type="checkbox"/>	Individual Permit Equivalency/CERCLA		
	<b>Waterfront Development</b>		
<input type="checkbox"/>	WDGP10 / New Bulkhead/Fill Lagoon		
<input type="checkbox"/>	WDGP14 / Reconstruct Bulkhead		
<input type="checkbox"/>	WDGP19/Dock/Piers, Boat Lifts Lagoon		
<input type="checkbox"/>	WDGP20 / Minor Maint Dredge Lagoon		
<input type="checkbox"/>	WDGP21 / Shoreline Stabilization		
<input type="checkbox"/>	Individual Permit/Upland		
<input type="checkbox"/>	Individual Permit/Inwater		
<input type="checkbox"/>	Zane Letter		
<input type="checkbox"/>	Modification		
<input type="checkbox"/>	Individual Permit Equivalency/CERCLA		
	<b>Highlands</b>		
<input type="checkbox"/>	Emergency Permit		
<input type="checkbox"/>	Pre-application Meeting		
<input type="checkbox"/>	Preservation Area Approval		
<input type="checkbox"/>	PAA with Waiver		
<input type="checkbox"/>	Resource Area Determination footprint		
<input type="checkbox"/>	Resource Area Determination <acre		
<input type="checkbox"/>	Resource Area Determination >acre		
<input type="checkbox"/>	HPAAGP 1/ Habitat Creation/Enhance		
<input type="checkbox"/>	HPAAGP 2 Bank Stabilization		
	<b>Consistency Determination</b>		
<input type="checkbox"/>	Water Quality Certificate		
<input type="checkbox"/>	Federal Consistency	No Fee	No Fee
<input type="checkbox"/>	HMC Water Quality Certificate		

	Application Type	Fee Amt	Amt Paid
	<b>Coastal/Tidal Wetlands</b>		
<input type="checkbox"/>	Coastal/Tidal Wetlands Permit		
<input type="checkbox"/>	Coastal Wetland Permit Modification		
	<b>Freshwater Wetlands</b>		
<input type="checkbox"/>	FWGP1 / Main. & repair Exist Feature		
<input type="checkbox"/>	FWGP2 / Utility Crossing		
<input type="checkbox"/>	FWGP3 / Discharge of Return Water		
<input checked="" type="checkbox"/>	FWGP4 / Hazard Site Invest/Cleanup	\$600 (75%)	\$450
<input type="checkbox"/>	FWGP5 / Landfill Closure		
<input type="checkbox"/>	FWGP6 / Filling of NSWC		
<input type="checkbox"/>	FWGP6A /TA- Filling of NSWC		
<input type="checkbox"/>	FWGP7 / Fill ditch / swale		
<input type="checkbox"/>	FWGP8 / House Addition		
<input type="checkbox"/>	FWGP9 / Airport Sightline Clearing		
<input type="checkbox"/>	FWGP10A / Very Minor Road Crossing		
<input type="checkbox"/>	FWGP10B / Minor Road Crossing		
<input checked="" type="checkbox"/>	FWGP11 / Outfalls / Intakes	\$240 (75%)	\$180
<input type="checkbox"/>	FWGP12 / Survey / Investigation		
<input type="checkbox"/>	FWGP13 / Lake Dredging		
<input type="checkbox"/>	FWGP14 / Water Monitoring		
<input type="checkbox"/>	FWGP15 / Mosquito Control		
<input type="checkbox"/>	FWGP16 / Habitat Create / Enhance	No Fee	No Fee
<input type="checkbox"/>	FWGP17 / Trails / Boardwalks		
<input type="checkbox"/>	FWGP17A / Multiuse paths		
<input type="checkbox"/>	FWGP18 / Dam Repairs		
<input type="checkbox"/>	FWGP19 / Dock or Pier		
<input type="checkbox"/>	FWGP20 / Bank Stabilization		
<input type="checkbox"/>	FWGP21 / Above Ground Utility		
<input type="checkbox"/>	FWGP23 / Expand Cranberry		
<input type="checkbox"/>	FWGP24 / Spring Developments		
<input type="checkbox"/>	FWGP25 / Malfunction Septic System	No Fee	No Fee
<input type="checkbox"/>	FWGP26 / Channel / Stream Clean		
<input type="checkbox"/>	FWGP27 / Redevelop Disturbed Site		
<input type="checkbox"/>	FWGP Modification		
<input type="checkbox"/>	FWGP Extension		
<input type="checkbox"/>	Individual Wetlands Permit		
<input type="checkbox"/>	Individual Open Water Permit		
<input type="checkbox"/>	Individual Permit Mod. Major/Minor		
<input type="checkbox"/>	Individual Permit Extension		
<input type="checkbox"/>	Wetlands Exemption		
<input type="checkbox"/>	Permit Equivalency/CERCLA		
	<b>Letter of Interpretation</b>		
<input type="checkbox"/>	Presence Absence		
<input type="checkbox"/>	Presence Absence Footprint		
<input type="checkbox"/>	Delineation		
<input type="checkbox"/>	Verification		
<input type="checkbox"/>	Extension		
	<b>Transition Area Waiver</b>		
<input type="checkbox"/>	Averaging Plan		
<input type="checkbox"/>	Reduction		
<input type="checkbox"/>	Hardship Reduction		
<input type="checkbox"/>	Special Activity Stormwater		
<input type="checkbox"/>	Special Activity Linear Development		
<input type="checkbox"/>	Special Activity Redevelopment		
<input type="checkbox"/>	Special Activity Individual Permit		
<input type="checkbox"/>	Exemption		
<input type="checkbox"/>	Modification Major/Minor		
<input type="checkbox"/>	Extension		

Both the Applicant and Property owner's section must be filled out for all Land Use Regulation Applications

**A. APPLICANT SIGNATURE**

I certify under penalty of law that the information provided in this document is true and accurate. I am aware that there are significant civil and criminal penalties for submitting false or inaccurate information. (If corporate entity, print/type the name and title of person signing on behalf of the corporate entity.)

  
\_\_\_\_\_  
Signature of Applicant/Owner  
11/29/12  
\_\_\_\_\_  
Date  
Chester Pucillo  
\_\_\_\_\_  
Print Name  
7 Nottingham Dr., Florham Park, NJ 07932  
\_\_\_\_\_  
Print Address

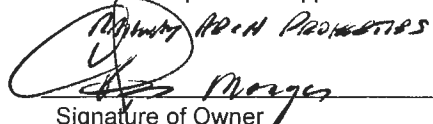
\_\_\_\_\_  
Signature of Applicant/Owner  
\_\_\_\_\_  
Date  
\_\_\_\_\_  
Print Name  
\_\_\_\_\_  
Print Address

**B. PROPERTY OWNER'S CERTIFICATION**

I hereby certify that the undersigned is the owner of the property upon which the proposed work is to be done. This endorsement is certification that the owner grants permission for the conduct of the proposed activity. In addition, I hereby give unconditional written consent to allow access to the site by representatives or agents of the Department for the purpose of conducting a site inspection or survey of the project site.

In addition, the undersigned property owner hereby certifies:

1. Whether any work is to be done within an easement – Yes: ☐ No: ☒
2. Whether any part of the entire project (e.g., pipeline, roadway, cable, transmission line, structure, etc.) will be located within property belonging to the State of New Jersey-Yes: ☐ No: ☒
3. Whether any work is to be done on any property owned by any public agency that would be encumbered by Green Acres – Yes: ☐ No: ☒
4. Whether any part of this project requires a Section 106(National Register of Historic Places) Determination as part of a federal permit or approval – Yes: ☐ No: ☒

  
\_\_\_\_\_  
Signature of Owner  
11/29/12  
\_\_\_\_\_  
Date  
Chester Pucillo  
\_\_\_\_\_  
Print Name  
7 Nottingham Dr., Florham Park, NJ 07932  
\_\_\_\_\_  
Print Address

\_\_\_\_\_  
Signature of Owner  
\_\_\_\_\_  
Date  
\_\_\_\_\_  
Print Name  
\_\_\_\_\_  
Print Address

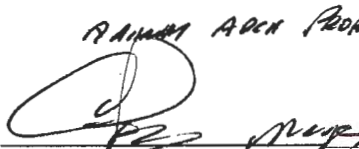
C. APPLICANT'S AGENT

NOTE: Notary seal is required for Flood Hazard Area (SEA) applications.

I Chester Pucillo, the Applicant/Owner, authorize to act as my agent/representative in all matters pertaining to my application the following person:

Name Pamela J. Pellegrini, P.E.

Occupation/Profession Professional Engineer

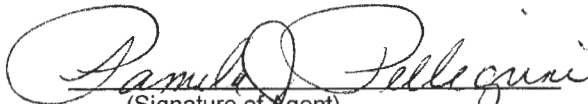
PAMela J. Pellegrini  
  
(Signature of Applicant/Owner)

AGENT'S CERTIFICATION

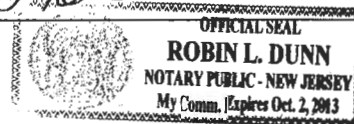
Sworn before me this day of

November 29 2012

I agree to serve as agent for the above-mentioned applicant

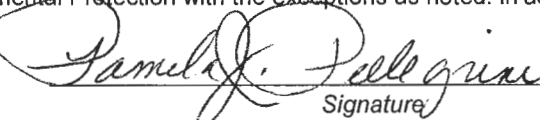
  
(Signature of Agent)

Rob L. Dunn  
Notary Public



D. STATEMENT OF PREPARER OF PLANS, SPECIFICATIONS, SURVEYOR'S OR ENGINEER'S REPORT

I hereby certify that the plans, specifications and engineer's report, if any, applicable to this project comply with the current rules and regulations of the New Jersey Department of Environmental Protection with the exceptions as noted. In addition, I certify the application is complete as per the appropriate checklist(s).

  
Signature

Pamela J. Pellegrini, P.E.

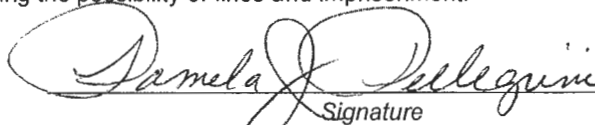
Type: Name and Date

Director-Special Projects, Kernan Consulting Engineers

Position, Name of Firm

E. STATEMENT OF PREPARER OF APPLICATION, REPORTS AND/OR SUPPORTING DOCUMENTS (other than engineering)

I certify under penalty of law that I have personally examined the information submitted in the document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining and preparing the information, I believe that the information is true, accurate and complete in accordance with the appropriate checklist(s). I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

  
Signature

Pamela J. Pellegrini, P.E.

Type: Name and Date

Director-Special Projects, Kernan Consulting Engineers

Position, Name of Firm

Please note: In addition to the standard paper submission, an electronic copy of the entire application, including plans, may be submitted on CDROM to assist the Department in the review this application.

Plans should be submitted as a CAD file or Shapefile, referenced in NJ state plane feet NAD83.

Please do NOT send the electronic version via E-Mail.



**SOIL SAFE**  
Soil Safe, Inc.

55266

55266

TRE001

Treasurer-State of NJ

00000028403

11/27/2012

00000085952

LAND USE PERMIT

11/27/2012

\$8,580.00

\$8,580.00

\$0.00

\$0.00

\$8,580.00



\$8,580.00

\$8,580.00

\$0.00

\$0.00

\$8,580.00

**SoilSafe.**

6700 ALEXANDER BELL DRIVE, SUITE 300  
COLUMBIA, MD 21046  
800-562-4365

PNC Bank, N.A.  
Jeanette, PA

001

60-162/433  
8032

DATE

11/27/2012

AMOUNT

\$8,580.00

**PAY** Eight Thousand Five Hundred Eighty Dollars And 00 Cents  
**TO THE**  
**ORDER** Treasurer-State of NJ  
**OF**

*Robert M. Angelo*

AUTHORIZED SIGNATURE

⑈055266⑈ ⑆043301627⑆ 1028863806⑈

55266

Details on Back



Security Features Included

## **Section II**

### **Application Checklists**



State of New Jersey  
Department of Environmental Protection

Revised: September 20, 2010

Website: [www.nj.gov/dep/landuse](http://www.nj.gov/dep/landuse)



## COASTAL GENERAL PERMIT APPLICATION FOR DEVELOPMENT NOT ASSOCIATED WITH A SINGLE FAMILY/DUPLEX PROPERTY CHECKLIST

**CALL NJDEP AT (609) 777-0454 OR (609) 984-0162 IF YOU HAVE ANY QUESTIONS**

To apply for a COASTAL GENERAL PERMIT, complete this checklist and send the material required below to the following address.

**Postal Mailing Address:**

NJDEP Division of Land Use Regulation  
Mail Code 501-02A  
P.O. Box 420  
Trenton, NJ 08625-402

**Street Address (For courier service and hand deliveries only):**

NJDEP Division of Land Use Regulation  
501 East State Street,  
Station Plaza Five, 2nd Floor  
Trenton, NJ 08609

- ✓ 1. A completed LURP-2 application form;
- ✓ 2. Permit review fee in the form of a check or money order or, governmental voucher in the amount of \$600 for each type of Coastal General Permit - (Payable to: Treasurer - State of New Jersey);
- ✓ 3. A copy of the tax map for the property and a copy of a portion of the county road map showing the property location.
- ✓ 4. Photographs showing the specific location of the proposed development taken from a minimum of four different locations and labeled as to orientation. Submit originals mounted with description and location of each view;
- ✓ 5. White certified mailing receipts or other written receipts as evidence that **three** complete copies of the application package have been submitted to the clerk of the municipality in which the development is proposed, including a letter requesting that the clerk distribute one copy to the planning board and one to the environmental commission. The third copy shall be maintained by the clerk's office.
- ✓ 6. White certified mailing receipts or other written receipts as evidence that a copy of (1) the completed LURP-2 application form, (2) the site plan (this plan maybe on an 8.5 by 11" sheet of paper provided it generally depicts the proposed development and the site location) and (3) the notice below, have been forwarded to the following parties:
  - a) County Planning Board;
  - b) Municipal Construction Official;
  - c) County Environmental Commission;
  - d) Owners of real property, including easements; in accordance with 1 or 2 below
  1. For **coastal general permits other than the coastal general permit for beach and dune maintenance**, public notice of the application shall be provided to all owners of real property, including easements, surrounding and sharing a property boundary at any point on the perimeter of the proposed development **and a list** certified by the municipality of the owners so notified.
  2. For **coastal general permit applications for beach and dune maintenance which involve more than a single family home or duplex**, public notice shall be provided by purchasing a 4-inch wide display advertisement in the official newspaper of the municipality or in a newspaper of general circulation in the municipality if there is no official newspaper(s). Notice shall **also** be provided to all owners of property, including easements, within 200 feet of a proposed dune walkover structure, rather



than to all owners of real property, including easement, within 200 feet of the beach and dune maintenance activities. The site plan need not include a full set of plans, but must depict the proposed development in relation to existing site conditions. The plan may be on an 8 1/2 by 11 inch sheet of paper provided it generally depicts the proposed development and the general and site specific location.

3. For additional development proposed on the site of an existing park facility of at least 50 acres in size, the Department may, at its discretion, eliminate, modify or reduce the requirement for individual notice to owners of property including easements, depending on the scope, location and anticipated impacts of the proposed development. For example, an applicant proposing to construct tennis courts located on one side of a 200 acre park facility would be required to notice only those property owners within the vicinity of the proposed tennis court. If the applicant feels reduced notice for proposed development is warranted, the applicant shall contact the regional section chief at (609) 292-0060.

The public notice required by this item shall read as follows:

*"This letter is to provide you with legal notification that an application will be submitted to the New Jersey Department of Environmental Protection, Division of Land Use Regulation for authorization under a coastal general permit for **(DESCRIBE THE PROPOSED DEVELOPMENT)**."*

*The complete permit application package can be reviewed at either the municipal clerk's office or by appointment at the Department's Trenton office. The Department of Environmental Protection welcomes comments and any information that you may provide concerning the proposed development and site. Please submit your written comments within 15 days of receiving this letter. Your comments should be sent along with a copy of this letter to:*

**New Jersey Department of Environmental Protection  
Division of Land Use Regulation  
Mail Code 501-02A  
PO Box 420  
501 East State Street  
Trenton, New Jersey 08625-0420  
Attn: "(Municipality in which the property is located) Supervisor"**

✓ 7. A copy of the public notice, which was mailed to those parties, listed in item 5 above.

✓ 8. The additional information as outlined below and on the following pages for your specific general permit(s):

N/A (a) 7:7-7.5 Coastal general permit for amusement pier expansion

1. Three copies of a site plan(s), signed and sealed by a Professional Engineer or Land Surveyor, showing the following (Note: Plans for activities proposed on public park lands may be prepared, signed and sealed by a State Certified Landscape Architect):
  - i. The amusement pier as it existed on July 19, 1993, as it exists at the time of the application, and as it will appear with the proposed expansion;
  - ii. Existing and proposed direct public access points from the boardwalk to the beach and all public accessways to the beach on the amusement pier and expansion;
  - iii. The proposed public seating and viewing area at the terminal end of the expansion;
  - iv. Location of the mean high water line of the Atlantic Ocean at or in proximity to the site;
  - v. Location of any dune in the area of expansion; and



3. A copy of any previous coastal permits for the site;
4. A compliance statement demonstrating how the project complies with N.J.A.C. 7:7E-3.25 Flood Hazard Areas; and
5. A compliance statement demonstrating how the project complies with N.J.A.C. 7:7E-3.26 Riparian Zones.

N/A(f)

**7:7-7.14 Coastal general permit for reconstruction of a legally existing functioning bulkhead**

1. Three copies of a site plan(s), signed and sealed by a Professional Engineer or Land Surveyor, showing the following (Note: Plans for activities proposed on public park lands may be prepared, signed and sealed by a State Certified Landscape Architect):
  - i. The mean and spring high water lines of the tidal waters at the site;
  - ii. The locations and dimensions of all existing and proposed structures, existing site conditions (including topography and all special areas as defined at N.J.A.C. 7:7E-3) and all proposed filling, grading, excavation and clearing. The plan must show the all waterfront structures, existing bulkhead, and upper and lower limits of wetlands, beach areas and dune areas.
  - iii. Bulkheads or other retaining structures on adjacent properties;
  - iv. Proposed new bulkhead including returns and tie backs and splash pad if located within the V-zone;
  - v. Location of all existing and proposed public access areas;
2. A Compliance Statement, demonstrating how the proposed project complies with the criteria of the coastal general permit at 7:7-7.14 in the Coastal Permit Program Rules including supplemental documents as appropriate, such as maps or surveys.



(g) **7:7-7.15 Coastal general permit for investigation, cleanup, removal or remediation of hazardous substances**

✓ 1.

- Three copies of a site plan(s), signed and sealed by a Professional Engineer or Land Surveyor, showing the following (Note: Plans for activities proposed on public park lands may be prepared, signed and sealed by a State Certified Landscape Architect):
  - i. The mean and spring high water lines of the tidal waters at the site;
  - ii. The limits of all Special Areas as defined in the Coastal Zone Management rules (N.J.A.C. 7:7E-3) within 150 feet of the proposed limits of disturbance on site and at the material disposal site;
  - iii. The proposed limits of disturbance and method of investigation, clean up, removal or remediation;
  - iv. The restoration plan;

- ✓ 2. A Compliance Statement, demonstrating how the proposed project complies with the criteria of the coastal general permit at 7:7-7.15 in the Coastal Permit Program Rules including supplemental documents as appropriate, such as maps or surveys;
- ✓ 3. Photographs of the site prior to the remediation;
- ✓ 4. The Department's case control number; and
- ✓ 5. A compliance statement demonstrating how the project complies with N.J.A.C. 7:7E-3.26 Riparian Zones.

N/A (h) **7:7-7.16 Coastal general permit for the landfall of utilities**

- 1. Three copies of a site plan(s), signed and sealed by a Professional Engineer or Land Surveyor, showing the following (Note: Plans for activities proposed on public park lands may be prepared, signed and sealed by a State Certified Landscape Architect):
  - i. The mean and spring high water lines of the tidal waters at the site;
  - ii. The upper and lower limits of wetlands, beach areas, coastal bluffs, endangered or threatened wildlife or vegetation species habitats and dune areas within 150 feet of the proposed limit of disturbance;
  - iii. The proposed limit(s) of disturbance;
  - iv. The restoration plan;
  - v. The location of the existing and proposed utility;
  - vi. The location and type of soil erosion and sediment control measures to be used during construction;
- 2. A Compliance Statement, demonstrating how the proposed project complies with the criteria of the coastal general permit at 7:7-7.16 in the Coastal Permit Program Rules including supplemental documents as appropriate, such as maps or surveys;
- 3. A compliance statement demonstrating how the project complies with N.J.A.C. 7:7E-3.25 Flood Hazard Areas; and
- 4. A compliance statement demonstrating how the project complies with N.J.A.C. 7:7E-3.26 Riparian Zones.

N/A (i) **7:7-7.17 Coastal general permit for the construction of recreational facilities at public parks**

- 1. Three copies of a site plan(s), signed and sealed by a Professional Engineer or Land Surveyor, or by a State Certified Landscape Architect showing the following:
  - i. The mean and spring high water lines of the tidal waters at the site;
  - ii. The proposed development including all limits of disturbance, structures, grading and clearing; and



State of New Jersey  
Department of Environmental Protection  
Division of Land Use Regulation  
Mail Code 501-02A  
PO Box 420  
Trenton, NJ 08625-0420  
Fax# (609)-777-3656  
[www.nj.gov/dep/landuse/](http://www.nj.gov/dep/landuse/)



## FRESHWATER WETLANDS GENERAL PERMIT AUTHORIZATION

### APPLICATION CHECKLIST AND FEE TABLE

(Updated 12/2010)

This checklist is to be used for all freshwater wetland general permits except General Permit 25 (repair or alteration of malfunctioning individual subsurface sewage disposal systems).

See special application checklist for general permit 25.

**To complete this checklist, you will need the following attachments:**

**Attachment A:** Form letter for providing certified mail notice of an application ✓

**Attachment B:** Form for providing newspaper notice of an application N/A

**Attachment C:** List of municipalities with swamp pink plants N/A

**Attachment D:** List of municipalities with bog turtles N/A

**LURP2 Form:** Application form

**NOTE:** Please provide only one copy of each item listed below, unless the item specifically states that more copies should be provided.

**NOTE:** The person who signs the LURP2 application form as the applicant must be the owner of the site, or a person with legal authority over the site to carry out all requirements of any authorization issued. Others may assist the applicant in preparing the application, however only one person may be identified in the application as the applicant's agent. The agent may be a consultant, engineer, attorney, or other person who has assisted or prepared the application. The agent is the person to which all correspondence will be sent and the person that has authority to make decisions with regard to the application.

**NOTE:** Most general permits now include authorization for transition area disturbance. If a project qualifies for the general permit, no separate transition area waiver is necessary.

### APPLICATION REQUIREMENTS:

**To be deemed administratively complete, an application for a general permit authorization must include all of the following items:**

- ☒ 1. A LURP2 application form, completed in accordance with the directions on the form;

- ☒ 2. The appropriate fee, indicated in the fee table below, paid as follows:
- The fee shall be paid by personal check, certified check, attorney check, government purchase order, or money order;
  - For all projects except those in the Pinelands, the fee shall be made payable to "**Treasurer, State of New Jersey**";
  - For projects in the Pinelands, the fee shall be made payable to "NJDEP-Pinelands Wetlands Program."
  - Each check, purchase order, or money order must be marked with the name of the applicant;
  - Each check, purchase order, or money order must indicate the general permit for which the application is submitted (for example, "general permit 5");
  - If more than one permit is requested a fee break down should be included on a separate page.
- ☒ 3. Proof that the public notice requirements at A and B below have been met. (Note: To prove that an item has been sent to a person, submit either the stamped white postal receipt you receive when you send the item by certified mail, or the signed green certified mail return receipt card.) All of the following must be submitted:
- A. Proof that the municipal clerk has been sent a copy of the entire application that was submitted to NJDEP;
- B. Proof that a completed copy of the notice letter found in Attachment A has been sent to each of the following:
- ☒ i. The municipal environmental commission (if one exists);
  - ☒ ii. The municipal planning board;
  - ☒ iii. The municipal construction official;
  - ☒ iv. The county planning board; and
  - ☒ v. One of the following sets of neighboring landowners (applicant choose one option):
- Option 1 All owners of land within 200 feet of the boundary of the site (see N.J.A.C. 7:7A-1.4 for a definition of "site").
- If this option is selected, the application must also include a certified list of landowners within 200 feet of the site, obtained from the municipality;
- Option 2 All owners of land within 200 feet of the disturbance.
- If this option is chosen, the application must also include a tax map with the location of the proposed disturbance outlined, and with an area extending 200 feet on all sides of the proposed disturbance outlined; or
- Option 3 If the project is a linear development, trail, or boardwalk; and the project is more than one half mile long, proof that both of the following have been done:
- A copy of the notice in Attachment A has been sent to all owners of land within 200 feet of any proposed above ground structure (not including

telephone poles, power lines or similar structures), such as an access road, treatment plant, power substation, or similar structure.

- A display advertisement has been published in the newspaper of record for the municipality in which the site is located and in a newspaper with regional circulation in the region in which the site is located. The advertisement shall be at least four column inches in size; and
  - To prove that this advertisement has been placed, the application must include a copy of the advertisement, or a copy of an affidavit from the newspaper, stating that the advertisement was published;

**Note:** If a project site is located in more than one municipality or county, the notice requirements in item 3 above must be met for each municipality and/or county in which the site is located.

- ☒ 4. A copy of a USGS quad map, with: the site clearly outlined (USGS quad maps can be obtained from the Department's Office of Maps and Publications – (609) 777-1038); and State Plane coordinates for a point at the approximate center of the site. The accuracy of the State plane coordinate shall be within 50 feet of the actual center point of the site. Please use nad 1983. For assistance in determining the State plane coordinates for a site, contact the Department's Geographic Information (GIS) Office at (609) 777-0672.

**Note:** For a linear development, the State plane coordinates shall include the coordinates for the end point of the development and the coordinates for points located at 1,000 foot intervals along the entire length of the development.

- ☒ 5. An up to date county road map or local street map, with the site clearly indicated;
- ☒ 6. At least four original color photographs, mounted on 8½ by 11 inch paper, showing the portion of the site that will be disturbed by the proposed general permit activities;
- ☒ 7. A compliance statement that includes all of the following:
- A. A description of the project and all proposed regulated activities;
  - B. The total area, in acres, of wetlands and State open waters on the site before the regulated activity is performed, and the total area, in acres, of wetlands and State open waters, on the site that will remain after the regulated activity is performed;
  - C. A list of all of the limits and requirements in the general permit which apply to the proposed activities. The general permits are listed in the freshwater wetlands rules at N.J.A.C. 7:7A-5.1 through 5.27;
  - D. A list of all of the limits and requirements in the freshwater wetlands rules at N.J.A.C. 7:7A-4.3 (Conditions that apply to all general permits) that apply to the proposed activities; and
  - E. An explanation of how the proposed activities comply with each limit or requirement listed under items C and D above;

- F. If a site is known or suspected to be contaminated with toxic substances, and if the Department requests it, a laboratory analysis of representative samples of the soil or sediment on the site;
- G. Documentation regarding when the lot that is the subject of the general permit was created by subdivision;
- H. A history of the ownership of the property beginning June 30, 1988 to present; and
- I. A listing of contiguous lots that were in common ownership with the lot on which the activities are proposed and the ownership history of each lot beginning June 30, 1988 to present;
- J. For General Permit 11 please submit stormwater calculations.

- ☒ 8. The following information on the location of wetlands on the site:
  - A. A letter of interpretation (LOI) if one has been issued for the site under N.J.A.C. 7:7A-3;
  - B. If no LOI has been issued, or if only a presence/absence LOI has been issued, include all information required for an application for a line delineation LOI or line verification LOI, covering the portion of the site that will be affected by the general permit activities;
    - This delineation shall be drawn onto the site plan required in item 9 below. A formal delineation report is not required. However, the application must include the data sheets used by the delineator to record the information on soils and vegetation which formed the basis for the delineation;
- ☒ 9. Five folded copies of a survey or site plan, signed and sealed by a licensed surveyor, showing the entire site and indicating the following:
  - A. All existing structures in the area that will be disturbed by the proposed activities;
  - B. All proposed structures, disturbances, and activities. A proposed project must be shown. In accordance with N.J.A.C. 7:7A-4.3(b)1, the Department shall not authorize activities under a general permit for the purpose of eliminating a natural resource in order to avoid regulation;
  - C. If a delineation of wetlands, transition areas, and State open waters is required under item 8 above, this delineation must be drawn on the survey or site plan;
- ☒ 10. Information regarding whether other approvals are required for the activities by Federal, interstate, State and local agencies for the activity; information regarding whether any such approvals or denials have been received; and information regarding whether the proposed activities are consistent with the rules, plans, or policies of other Federal, interstate, State and local agencies.
- ☒ 11. If the application is for authorization for regulated activities in a transition area, a copy of the deed and/or other relevant documents pertaining to the site, showing and/or describing property boundaries, ownership, easements, restrictions, previous approvals by any local, federal, interstate or state agency, and any other information relating to the site that will assist the Department in assessing compliance with the Freshwater Wetlands Protection Act rules, N.J.A.C. 7:7A;

- ☒ 12. Information and certifications regarding the presence or absence of endangered or threatened species habitat, historic or archaeological resources or other features on the site that are relevant to determining compliance with the requirements of this chapter;
- ☐ 13. If the site is located in a municipality with the endangered plant known as swamp pink (*Helonias Bullata*) (these municipalities are listed in Attachment C), the application must also include a signed statement from the applicant, certifying that the proposed activities will not result in any direct or indirect adverse impacts to swamp pink or its documented habitat;
- ☐ 14. If the site is located in a municipality with the endangered bog turtle (these municipalities are listed in Attachment D), the application must also include a signed statement from the applicant, certifying that the proposed activities will not result in any direct or indirect adverse impacts to bog turtles or to their documented habitat;
- ☐ 15. If the application is for authorization under general permit 1 (N.J.A.C. 7:7A-5.1) to perform ongoing maintenance of an off-stream stormwater management facility created in uplands, the application must also include a copy of the permit, if any, authorizing the original construction of the stormwater management facility. (Note the special review procedures for this activity in the freshwater wetlands rules at N.J.A.C. 7:7A-5.1(d));
- ☒ 16. If the application is for a proposed project that has disturbances of  $\frac{1}{4}$  acre impervious surface in freshwater wetlands and/or transition area or if the total pervious and impervious disturbance to wetlands and/or transition is greater than an acre or if more than  $\frac{1}{4}$  acre of impervious surface drains to any outfall requiring a general permit 11 the applicant must submit a Stormwater Report that proves the proposed project meets the Water Quality Standards at N.J.A.C. 7:8 and a full set of construction site plans.

In addition to the above the following must be submitted

Stormwater management must be provided in certain cases as described below. See [www.njstormwater.org](http://www.njstormwater.org) for more information. (Note: if your freshwater wetlands application is being submitted jointly with a stream encroachment, waterfront development and/or CAFRA application, different means of determining whether the Stormwater Management rules may apply.)

A. Check (and explain) if the project:

- ☐ Is exempt from the stormwater rules at N.J.A.C. 7:8-5.2(d). (In such cases, you do not need to complete the rest of this section.)
- ☐ Meets the waiver requirements for public roadway improvements at N.J.A.C. 7:8-5.2(e).

B. Enter the total amount of land that will be disturbed (as described below):

85 ± ft<sup>2</sup> or acres (circle one).



“Disturbance” means the sum of the following:

- The total amount of proposed disturbance within freshwater wetlands, transition areas and open waters onsite.
- The total amount of proposed disturbance onsite, if runoff from the disturbed area will be collected and discharged into freshwater wetlands, transition areas or open waters.

If at least 1 acre (43,560 ft<sup>2</sup>) of land will be disturbed, as described above, submit the following (in the engineering report):

- ☒ One completed Low Impact Design checklist (see Appendix A of BMP manual at [www.njstormwater.org](http://www.njstormwater.org)).
- ☒ One copy of a USGS map, showing the site and its HUC-14 watershed and indicating any 300-ft buffers onsite.
- ☒ Proof that the groundwater recharge standards at N.J.A.C. 7:8-5.4(a)2 are met (unless exempted at N.J.A.C. 7:8-5.4(a)2ii).
- ☒ Proof that the runoff quantity standards at N.J.A.C. 7:8-5.4(a)3 are met (unless the project lies in a tidal floodplain and will cause no adverse impacts to flooding, as described at N.J.A.C. 7:8-5.4(a)3iv).
- ☒ Proof that the use of nonstructural stormwater strategies has been maximized onsite via one of the following:
- ☒ A completed Nonstructural Stormwater Strategies Point System spreadsheet (see [www.njstormwater.org](http://www.njstormwater.org)).
- ☐ A detailed narrative (including an alternative analysis where necessary), explaining how the project does (or does not) implement all nine nonstructural strategies required at N.J.A.C. 7:8-5.3.

C. Enter the net-increase in impervious area onsite (as described below):

0 ft<sup>2</sup> or acres (circle one).

“Impervious areas” means the sum of the following:


- The total amount of proposed impervious areas within freshwater wetlands, transition areas and open waters onsite.
- The total amount of proposed impervious areas onsite, if runoff from the impervious areas will be collected and discharged into freshwater wetlands, transition areas or open waters. Include all new impervious areas onsite, as well as existing impervious areas from which stormwater currently sheet-flows, but which will be collected into a basin or storm sewer system. Subtract any impervious areas being removed onsite, if runoff from the area to be removed is currently collected and discharged into within freshwater wetlands, transition areas and open waters.


If a net-increase of at least ¼ acre (10,890 ft<sup>2</sup>) of impervious area will occur, as described above, submit all material in Part B above and the following:

- ☒ Proof (in the engineering report) that the water quality standards at N.J.A.C. 7:8-5.5 are met.

- ☒ D. Complete a Stormwater Review Fee worksheet to calculate the appropriate stormwater review fee



 17. If the site is located in an area designated a Wild and Scenic River, or under study for such designation, the application must also include a letter from the National Park Service approving the proposed activities.

 18. Applications reflecting any of the characteristics listed at N.J.A.C. 7:7A-12.2(l)1-5 shall be deemed to present a high probability of the presence of historic and archaeological resources, requiring assessment and shall require, with the wetlands permit application, the submittal of a Phase IA historical and archaeological survey, and an architectural survey, defined at N.J.A.C. 7:7A-1.4. Please see N.J.A.C. 7:7A-12.2(l), (m), (n), (o) and (p) for more details.

For more information on application requirements, see the Freshwater Wetlands Protection Act rules at N.J.A.C. 7:7A-10.

#### APPLICATION FEES FOR A GENERAL PERMIT AUTHORIZATION

Type of general permit	Application Fee
Any general permit authorization, except: <ul style="list-style-type: none"><li>- General permit 16 (wildlife management);</li><li>- General permit 25 (septic repair); or</li><li>- General permit 17 on public land.</li></ul>	\$600.00 <sup>1</sup>
Authorization under general permit 16 or 25, or general permit 17 on public land	No charge
Multiple general permit authorizations for one site	\$600.00 <sup>1</sup> plus \$240.00 for each additional general permit
General permit authorization extension	\$240.00
General Permit Authorization Modification	\$240.00

#### Notes:

1- Plus, as applicable, the additional fees for major developments as defined at N.J.A.C. 7:8-1.2  
For more information on application fees, see the Freshwater Wetlands Protection Act rules at N.J.A.C. 7:7A-11.



State of New Jersey  
Department of Environmental Protection



# FLOOD HAZARD AREA VERIFICATION CHECKLIST

Revised: November 29, 2010

Website: [www.nj.gov/dep/landuse](http://www.nj.gov/dep/landuse)

**CALL NJDEP AT (609) 777-0454 OR (609) 984-0162 IF YOU HAVE ANY QUESTIONS**

To apply for a flood hazard area verification, complete this checklist and send the material required below to the following address (please do not submit more copies than required):

**Postal Mailing Address:**

NJDEP Division of Land Use Regulation  
Mail Code 501-02A  
P.O. Box 420  
Trenton, NJ 08625

**Street Address (For courier service and hand deliveries only):**

NJDEP Division of Land Use Regulation  
501 East State Street, Station Plaza Five, 2nd Floor  
Trenton, NJ 08609

Please note: If you apply for a verification and a permit at the same time, you may combine application requirements and save time and paper. For example, both a verification and an individual permit application require three copies of an application report. You may therefore submit three copies to cover both applications; you do not need to submit six copies (three copies for each application).

**CHECK ALL BOXES BELOW OR MARK N/A**

- ☒ 1. One completed copy of this checklist.
- ☒ 2. Three copies of an application report, as described at N.J.A.C. 7:13-15.3, which includes:
- ☒ a. A complete written description of the project and all proposed activities.
  - ☒ b. One completed LURP-2 application form (with original signatures on at least one copy).
  - ☒ c. One copy of a USGS quad map with the site clearly outlined to scale.
  - ☒ d. One copy of a municipal tax map with the site clearly outlined to scale.
  - ☒ e. One copy of a Department flood hazard area map or FEMA flood insurance rate map with the site clearly outlined to scale, if such mapping exists.
  - ☒ f. One copy of each previous approval received from NJDEP concerning the site, if such approvals exist.
  - ☒ g. One set of color photographs depicting the entire project area, mounted on 8½ -inch by 11-inch paper and accompanied by a map showing the location and direction from which each photograph was taken. Copies of photographs are acceptable provided they are color copies. Black and white copies of photographs are not acceptable. (Note: If a hydrologic and/or hydraulic model is submitted with the application, the photographs required in the application report shall depict any water control structures, as well as a representative sampling of the locations of any cross-sections, which are referenced by the models.)
- ☒ 3. One copy of an engineering report, as described at N.J.A.C. 7:13-15.4, which includes all necessary supporting calculations, maps and other documentation and a description of which delineation method under N.J.A.C. 7:13-3 was used:
- ☒ a. The signature and seal of an engineer.
  - ☒ b. The name, mailing address and telephone number of the engineer, as well as any other person designated by the engineer to answer questions about the report.
  - ☒ c. All supporting hydrologic and hydraulic calculations, which are necessary to demonstrate that the proposed application meets the requirements of the Flood Hazard Area Control Act rules at N.J.A.C. 7:13.
  - ☒ d. A narrative that explains the submitted calculations and describes why each particular calculation or methodology was used.
  - ☒ e. All maps, references and other supporting materials that were used to prepare the submitted calculations.
- ☒ 4. Documentation that the applicable public notice requirements of N.J.A.C. 7:13-16 have been met.  
(Note: public notice is required only if the verification is based on Method 4, 5 or 6 (see N.J.A.C. 7:13-3))

☒ 5. The application fee required under N.J.A.C. 7:13-17.

☒ 6. Six sets of drawings, signed and sealed by a engineer, land surveyor or architect, as appropriate, which contain the following information:

- ☒ a. Topography that references NGVD, or includes the appropriate conversion factor to NGVD, unless the applicant demonstrates that such reference is not necessary.
- ☒ b. The limit of the flood hazard area under existing conditions on the site. If the entire site is in a flood hazard area, the drawings shall include a note to this effect, as well as the elevation(s) of the flood hazard area design flood on the site.
- ☒ c. The limit of any floodway under existing conditions on the site, if the applicant seeks verification of the floodway limits. If the entire site is in a floodway, the drawings shall include a note to this effect.
- ☒ d. A metes and bounds description of any flood hazard area limit and floodway limit under existing conditions onsite. If the verification is submitted concurrently with a permit application that proposes to affect one or both of these limits, the drawings shall also include a metes and bounds description of the proposed flood hazard area and/or floodway limits.
- ☒ e. The following statement: "NOTE: All or a portion of this site lies in a flood hazard area. Certain activities in flood hazard areas are regulated by the New Jersey Department of Environmental Protection and some activities may be prohibited on this site or may first require a permit. Contact the Division of Land Use Regulation at (609) 292-0060 for more information prior to any construction onsite."
- ☒ f. A note indicating which method described at N.J.A.C. 7:13-3 was used to determine the limit of the flood hazard area and/or floodway.
- ☒ g. The limit of any riparian zone onsite as described at N.J.A.C. 7:13-4.1.
- ☒ h. An indication of the location of any cross-section and water control structure referenced in the engineering report as well as a graphic depiction of each cross-section.

☒ 7. A copy of an NJDEP, Office of Natural Lands Management, Natural Heritage Database data request response for endangered or threatened species of flora or fauna, including a Landscape map report.

Please see [www.nj.gov/dep/parksandforests/natural/heritage](http://www.nj.gov/dep/parksandforests/natural/heritage) for details on how to apply.





State of New Jersey  
Department of Environmental Protection



# FLOOD HAZARD AREA INDIVIDUAL PERMIT CHECKLIST

Revised: November 29, 2010

Website: [www.nj.gov/dep/landuse](http://www.nj.gov/dep/landuse)

**CALL NJDEP AT (609) 777-0454 OR (609) 984-0162 IF YOU HAVE ANY QUESTIONS**

To apply for a flood hazard area individual permit, complete this checklist and send the material required below to the following address (please do not submit more copies than required):

**Postal Mailing Address:**

NJDEP Division of Land Use Regulation  
Mail Code 501-02A  
P.O. Box 420  
Trenton, NJ 08625

**Street Address (For courier service and hand deliveries only):**

NJDEP Division of Land Use Regulation  
501 East State Street, Station Plaza Five, 2nd Floor  
Trenton, NJ 08609

Please note: If you apply for a verification and a permit at the same time, you may combine application requirements and save time and paper. For example, both a verification and an individual permit application require three copies of an application report. You may therefore submit three copies to cover both applications; you do not need to submit six copies (three copies for each application).

## PART ONE: APPLIES TO ALL APPLICATIONS (CHECK ALL BOXES OR MARK N/A)

- ☒ 1. One completed copy of this checklist.
- ☒ 2. Three copies of an application report, as described at N.J.A.C. 7:13-15.3, which includes:
  - ☒ a. A complete written description of the project and all proposed activities.
  - ☒ b. One completed LURP-2 application form (with original signatures on at least one copy).
  - ☒ c. One copy of a USGS quad map with the site clearly outlined to scale.
  - ☒ d. One copy of a municipal tax map with the site clearly outlined to scale.
  - ☒ e. One copy of a Department flood hazard area map or FEMA flood insurance rate map with the site clearly outlined to scale, if such mapping exists.
  - ☒ f. One copy of each previous approval received from NJDEP concerning the site, if such approvals exist.
  - ☒ g. One set of color photographs depicting the entire project area, mounted on 8½ -inch by 11-inch paper and accompanied by a map showing the location and direction from which each photograph was taken. Copies of photographs are acceptable provided they are color copies. Black and white copies of photographs are not acceptable. (Note: The photographs shall show any sections of channel or riparian zone that will be disturbed by the project.)
- ☒ 3. One copy of an engineering report, as described at N.J.A.C. 7:13-15.4, if the Department must review detailed engineering calculations in order to determine whether the proposed activity complies with this chapter. The engineering report shall include:
  - ☒ a. The signature and seal of an engineer.
  - ☒ b. The name, mailing address and telephone number of the engineer, as well as any other person designated by the engineer to answer questions about the report.
  - ☒ c. All supporting hydrologic, hydraulic, flood storage volume, stormwater and structural calculations, which are necessary to demonstrate that the proposed application meets the requirements of the Flood Hazard Area Control Act rules at N.J.A.C. 7:13.
  - ☒ d. A narrative that explains the submitted calculations and describes why each particular calculation or methodology was used.
  - ☒ e. All maps, references and other supporting materials that were used to prepare the submitted calculations.
  - ☒ g. The total area of impervious surface proposed and the total land area that will be disturbed.
  - ☒ h. If stormwater management is required pursuant to N.J.A.C. 7:13-11.2, the following information where applicable:

- ☒ (i) An explanation of how nonstructural stormwater management strategies have been maximized on site, as required at N.J.A.C. 7:8-5.3.
- ☒ (ii) A demonstration of how the project meets the groundwater recharge standards at N.J.A.C. 7:8-5.4(a)2.
- ☒ (iii) A table which compares existing and proposed stormwater discharges for the two-year, 10-year and 100-year storm in order to demonstrate compliance with the runoff quantity standards at N.J.A.C. 7:8-5.4(a)3.
- ☒ (iv) An explanation of how the project meets the water quality standards at N.J.A.C. 7:8-5.5.

☒ **4. Three copies of an environmental report, as described at N.J.A.C. 7:13-15.5.**

Note: no environmental report is required if a project consists solely of the construction of one private residence, which is not being constructed as part of a larger residential subdivision, and/or the construction of a building appurtenant to a private residence, such as a garage, barn or shed. If this applies, check here: ☐

- ☒ a. A narrative that describes the proposed design and the construction techniques that will be used.
- ☒ b. Maps (such as freshwater wetlands maps and USDA soil surveys) which provide an environmental inventory of the site.
- ☒ c. An analysis of any potential adverse impacts to the following resources and a detailed description of how potential adverse impacts shall be minimized. This analysis shall include all temporary and permanent adverse impacts of each proposed activity, whether onsite or offsite, as follows:
  - ☒ (i) Channels: compliance with the requirements of N.J.A.C. 7:13-10.1, as well as any anticipated effects on the size, shape and characteristics of existing channels, including low-flow aquatic passage, shall be addressed.
  - ☒ (ii) Riparian zones: compliance with the requirements of N.J.A.C. 7:13-10.2 shall be addressed.
  - ☒ (iii) Fishery resources: compliance with the requirements of N.J.A.C. 7:13-10.5 shall be addressed.
  - ☒ (iv) Threatened or endangered species: if a survey for threatened or endangered species is required under N.J.A.C. 7:13-10.6(e), it shall meet the requirements of N.J.A.C. 7:13-15.5(c).
  - ☒ (v) Regulated waters: the effects on water quality due to stormwater runoff, exposure of acid producing soils, and potential for erosion and turbidity shall be addressed.
- ☒ d. If a proposed project is likely to cause an adverse impact to any resource listed above, the environmental report shall also include the following:
  - ☒ (i) A justification for the project, including an explanation of why the proposed structures and their locations are the most appropriate for the site and how the proposed design minimizes environmental damage.
  - ☒ (ii) An analysis of alternatives to the proposed activity, including the no-build alternative.
  - ☒ (iii) A description of all measures to be taken to reduce temporary and permanent detrimental impacts to each resource listed at (a)3 above, whether onsite or offsite.
  - ☒ (iv) A plan to mitigate to effects of all unavoidable adverse impacts.

☒ **5. Documentation that the applicable public notice requirements of N.J.A.C. 7:13-16 have been met.**

Note: no public notice is required if a project consists solely of the construction of one private residence, which is not being constructed as part of a larger residential subdivision, and/or the construction of a building appurtenant to a private residence, such as a garage, barn or shed. If this applies, check here: ☐

☒ **6. The application fee required under N.J.A.C. 7:13-17.**

☒ **7. Six sets of drawings, signed and sealed by a engineer, land surveyor or architect, as appropriate, which contain the following information:**

- ☒ a. All proposed regulated activities (including the size, location and all construction details for each).
- ☒ b. The limit of any riparian zone onsite.
- ☒ c. Existing and proposed topography if fill or grading is proposed, unless the Department determines that topography is not necessary to determine compliance with this chapter. All topography shall reference NGVD, or include the appropriate conversion factor to NGVD, unless the applicant demonstrates that such reference is not necessary.



- ☒ d. The limit of the flood hazard area and floodway onsite if present. If proposed fill, construction and/or grading will affect these limits, then both existing and proposed flood hazard area and floodway limits shall be included on all drawings.
- ☒ e. Details of proposed soil erosion and sediment control measures.
- ☒ f. If construction is proposed in a regulated water, the drawings shall also include the following:
- ☐ (i) An explanation of the exact method of proposed construction.
  - ☐ (ii) A timetable for the construction.
  - ☐ (iii) All proposed trenching, diversionary channels and temporary piping of the regulated water.
- ☒ g. If construction is proposed in a riparian zone, the drawings shall also include the following:
- ☒ (i) All locations where vegetation will be cleared, cut or removed.
  - ☒ (ii) Details of any replanting pursuant to N.J.A.C. 7:13-10.2.

- ☒ 8. A copy of an NJDEP, Office of Natural Lands Management, Natural Heritage Database data request response for endangered or threatened species of flora or fauna, including a Landscape map report.

Please see [www.nj.gov/dep/parksandforests/natural/heritage](http://www.nj.gov/dep/parksandforests/natural/heritage) for details on how to apply.

## PART TWO: APPLIES TO CERTAIN APPLICATIONS (CHECK ONLY IF APPLICABLE)

- ☒ 9. An application that proposes activities in a regulated area known or suspected to contain acid producing soils shall include the following:
- ☐ a. A comprehensive evaluation of the potential environmental risks caused by exposure of the acid soils.
  - ☐ b. A plan to minimize any such risks.

- ☒ 10. An application that proposes the use of fill credits to balance fill on a site in the Central Passaic Basin, as described at N.J.A.C. 7:13-10.4(s) and (t), shall include documentation that the fill credits have been purchased by the applicant prior to the submittal of the application.

- ☒ 11. An application that proposes to construct a dry flood-proofed building shall include the following material, signed and sealed by an architect or engineer:
- ☐ a. Drawings that clearly show the proposed dry flood-proofing measures.
  - ☐ b. Calculations that demonstrate that the structure meets the requirements for flood resistance at N.J.A.C. 7:13-11.4(b).
  - ☐ c. A dry flood-proofing certification, listing each applicable dry flood-proofing requirement at N.J.A.C. 7:13-11.5(q), and stating how the building meets each requirement.

- ☒ 12. If the Department requires a survey for threatened or endangered species under N.J.A.C. 7:13-10.6(e), the survey shall be performed by a person with education and experience in wildlife biology, zoology and/or botany, as appropriate, and shall include the following:
- ☐ a. The name, mailing address and qualifications of all persons participating in the survey.
  - ☐ b. The acreage of the surveyed area.
  - ☐ c. A USGS quad map with the surveyed area for each habitat outlined.
  - ☐ d. A description of each habitat and cover type onsite including vegetation, hydrology, soils and natural communities. These habitats shall be assessed for suitability and compatibility to the life history of the species being investigated. If no threatened or endangered species are observed, a discussion of the site's suitability for such species shall be provided.
  - ☐ e. The date and time of the investigation (including total number of hours spent by each individual for species observation).
  - ☐ f. The number of observers present on the site at any one time, including their location on the site relative to one another.
  - ☐ g. Site conditions during the survey, such as precipitation, temperature, wind speed and direction, artificial or natural noise, and nearest onsite or offsite human activity or development. and
  - ☐ h. If the survey reveals the presence or evidence of a threatened or endangered species, detailed information regarding each sighting, including:
    - ☐ (i) Whether the subject was sighted directly or identified by call, track, scat, remains or other indirect evidence of presence.

- ☐ (ii) The date(s) and time(s) of each such sighting or discovery of evidence.
- ☐ (iii) The relative age and condition of any indirect evidence observed and its location on the property.
- ☐ (iv) A description of the techniques and methodologies employed by the observer during the investigation.
- ☐ (v) If an animal species is observed directly, the number of each species observed, likely age, observed activity, gender, location on or near the site, and proximity to the observer at each sighting.
- ☐ (vi) If a plant species is observed directly, the number of each species observed and its location on or near the site.

# **Section III**

## **Fee Calculation Worksheets**



**FEE CALCULATION**  
**RAHWAY ARCH PROPERTIES, LLC**  
**SITE REMEDIATION WITH ASSOCIATED CLASS B FACILITY**  
**BOROUGH OF CARTERET, MIDDLESEX COUNTY, NEW JERSEY**  
**KERNAN CONSULTING ENGINEERS - PROJECT NO. KE12017**

I. The fee under **Waterfront Development**

- Coastal General Permit (GP) #15 (Hazard Waste Cleanup) = \$600

Therefore, the total permit fee for the Waterfront Development - Coastal General Permit #15 is \$600

II. The fee for **Freshwater Wetlands General Permit Authorization** is \$600 for the first general permit authorization and \$240 for each additional permit authorization.

- General Permit (GP) #4 (Hazard Site Investigation/Cleanup) = \$600
- GP #11 (Outfalls) = \$240

Therefore, the total permit fee for the Freshwater Wetlands General Permits is \$840.

III. The fee under **Flood Hazard Area**:

- Flood Hazard Area Verification (Method 2 FEMA tidal method) = \$500
- Flood Hazard Area Individual Permit:
  - Excavation, fill and/or grading (review of net fill calculations not necessary) = \$1,000
  - Hardship Exception for Class B Facility - \$4,000

Therefore, the total permit fee for the Flood Hazard Permit = \$5,500.

IV. For **Multiple Permits**:

Pursuant to NJAC 7:7A-11.1(d), the application fee shall be the sum of the highest single application fee of all the permits required for the project, and seventy-five percent of the application fee for each additional approval required.

Therefore, the total permit fee is:  $\$5,500 + (.75)\$840 + (.75)\$600 =$   
 $\$5,500 + \$630 + \$450 = \$6,580$

V. For an **engineering review of stormwater** the fee is \$2,000 for each project that requires review, plus \$0 to \$4,000 per element, based on disturbance acreage or exceptions as noted below:

- Since the project has <.25 acre of new impervious surface proposed, Water Quality **does not apply**.
- Since the project is located in a tidal flood hazard area, Runoff Quantity **does not apply**.

- Per NJAC 7:8-5.42ii, since the project is located in an urban redevelopment area or in an area of high pollutant loading and where recharge would be inconsistent with a remedial action workplan, the Groundwater Recharge **does not apply.**

**Total Stormwater Review Fee:      \$2,000 + \$0.00 = \$2,000**

**Therefore, the total fee calculated is \$6,580 + \$2,000 = \$8,580**

**TOTAL FEE: \$8,580**



# State of New Jersey Department of Environmental Protection STORMWATER REVIEW FEE WORKSHEET

Revised January 3, 2006



- Total area of new impervious surface<sup>1</sup> proposed: \_\_\_\_\_ acres
- Total area of disturbance proposed: 85<sup>+</sup> acres
- Based on the above areas, circle all that apply below and calculate the total fee at the bottom:  
(See N.J.A.C. 7:8 for definitions, as well as details on how to apply the Stormwater Management rules in various situations.)

<b>Base Fee:</b> Applies to all projects that require stormwater review	<b>\$2000</b>					
<b>Water Quality:</b> Applies when 0.25 acres of new impervious surface <sup>1</sup> is proposed	Below Threshold <b>\$0</b>		Less than 1 acre <b>\$500</b>	Between 1 and 3 acres <b>\$1000</b>	Between 3 and 10 acres <b>\$2000</b>	Over 10 acres <b>\$4000</b>
<b>Runoff Quantity:</b> Applies when 0.25 acres of new impervious surface <sup>1</sup> or 1 acre of disturbance is proposed	Below Threshold <b>\$0</b>	Located in Tidal Area <sup>2</sup> <b>\$0</b>	Less than 3 acres <b>\$500</b>	Between 3 and 10 acres <b>\$1000</b>	Between 10 and 100 acres <b>\$2000</b>	Over 100 acres <b>\$4000</b>
<b>Groundwater Recharge:</b> Applies when 0.25 acres of new impervious surface <sup>1</sup> or 1 acre of disturbance is proposed	Below Threshold <b>\$0</b>	Located in URA <sup>3</sup> <b>\$0</b>	Less than 3 acres <b>\$500</b>	Between 3 and 10 acres <b>\$1000</b>	Between 10 and 100 acres <b>\$2000</b>	Over 100 acres <b>\$4000</b>
<b>Work in 300-ft buffer:</b> For work in the <i>Special Water Resource Protection Area</i>	<b>\$2000</b>					
<b>Total Fee:</b>	<b>\$ 2000</b>					

Notes: 1. "New impervious surface" includes: (1) All newly proposed impervious areas on site and (2) All existing impervious areas from which stormwater currently sheet flows, but which is now proposed to be collected into a storm sewer and discharged.  
2. Certain projects in tidal flood hazard areas are exempt from runoff quantity requirements (see N.J.A.C. 7:8-5.4(a)3iv).  
3. Certain projects in "urban redevelopment areas" are exempt from groundwater recharge requirements (see N.J.A.C. 7:8-1.2 and 5.4(a)2ii).

## **Section IV**

### **Site Mapping**

- USGS Site Location Map
- Road Map
- Tax Map
- Soils Map
- Aerial Map
- FEMA-FIRM





Rahway Arch Properties -  
Site Remediation  
Block 602, Lots 1 & 8, Block 603, Lot 1,  
Block 705, Lots 17 & 18  
Borough of Carteret  
Middlesex County, New Jersey

## Legend

— Site Location



**USGS QUAD MAP**  
Quadrangle #63- Arthur Kill

File Name: QUAD  
Project No.: KE12017  
Prepared By: MSY  
Date: 11/26/12

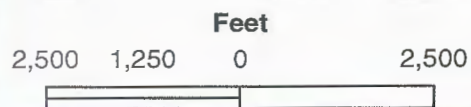
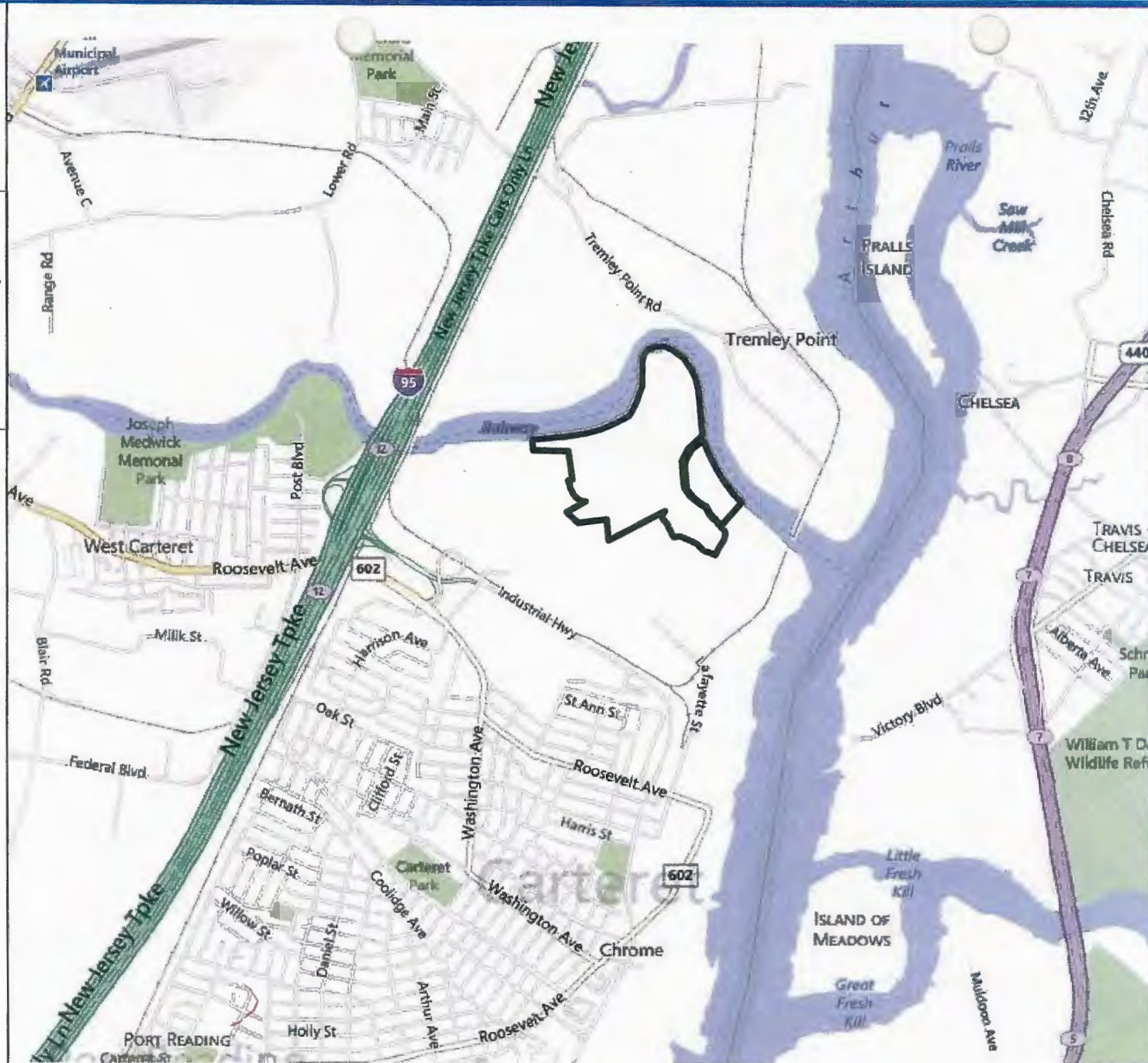




Rahway Arch Properties -  
Site Remediation  
Block 602, Lots 1 & 8, Block 603, Lot 1,  
Block 705, Lots 17 & 18  
Borough of Carteret  
Middlesex County, New Jersey

## Legend

— Site Location



## COUNTY ROAD MAP

File Name: ROAD  
Project No.: KE12017  
Prepared By: MSY  
Date: 11/26/12

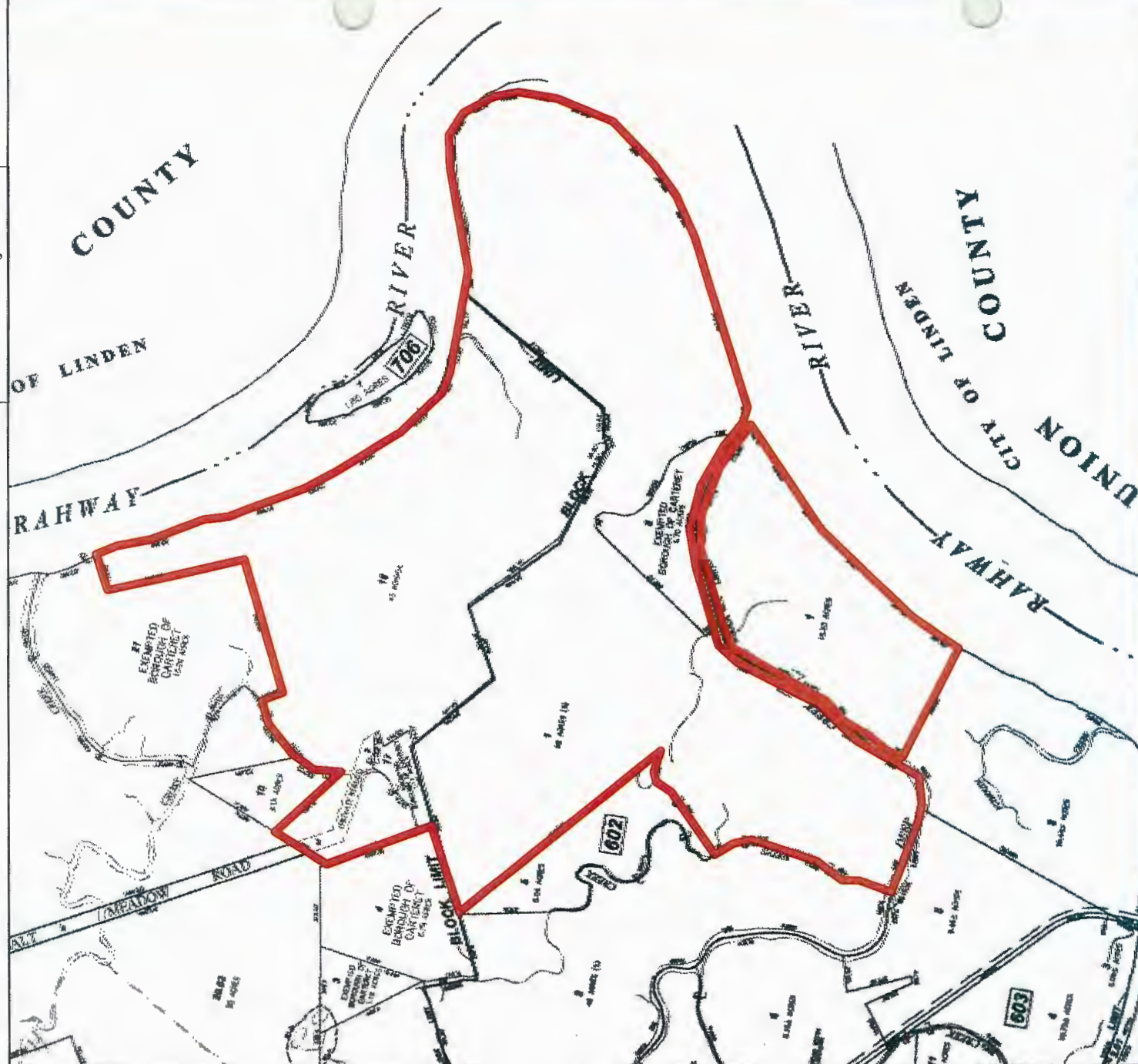




Rahway Arch Properties -  
Site Remediation  
Block 602, Lots 1 & 8, Block 603, Lot 1,  
Block 705, Lots 17 & 18  
Borough of Carteret  
Middlesex County, New Jersey

### Legend

— Site Location



## TAX MAP

SHEETS 6 & 7

File Name: TAXMAPS  
Project No.: KE12017  
Prepared By: MSY  
Date: 11/26/12









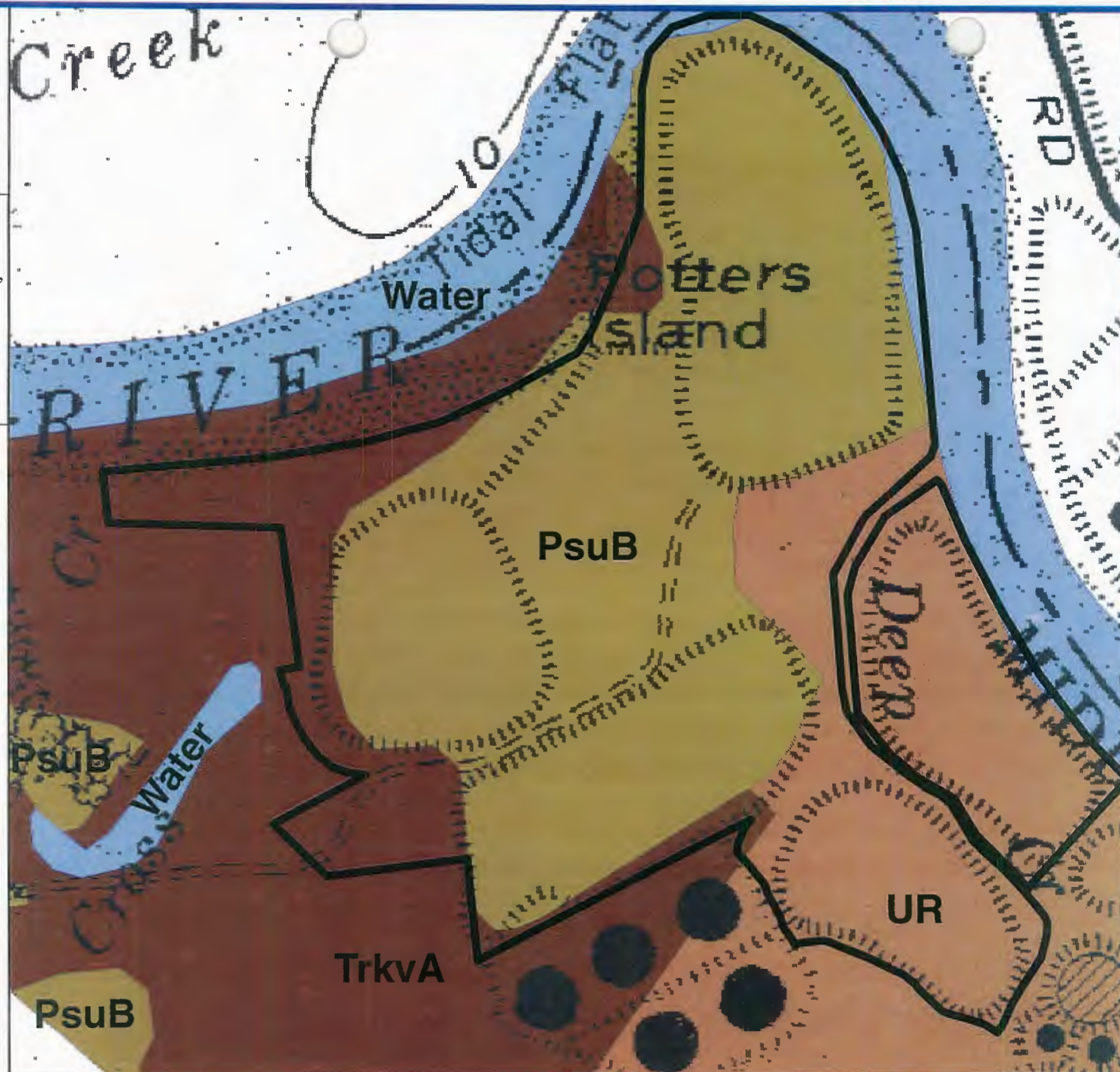
Rahway Arch Properties -  
Site Remediation  
Block 602, Lots 1 & 8, Block 603, Lot 1,  
Block 705, Lots 17 & 18  
Borough of Carteret  
Middlesex County, New Jersey

### Legend

— Site Location

### Soils

-  PsuB, Psammments, waste substratum
-  TrkvA, Transquaking mucky peat
-  UR, Urban land
-  Water



## SOILS MAP

Quadrangle #63- Arthur Kill

File Name: SOILS  
Project No.: KE12017  
Prepared By: MSY  
Date: 11/26/12

Note:  
Soils Data Taken From NRCS Soil Survey  
Geographic 2008 (SSURGO) Database for  
Gloucester County, New Jersey





Rahway Arch Properties -  
Site Remediation  
Block 602, Lots 1 & 8, Block 603, Lot 1,  
Block 705, Lots 17 & 18  
Borough of Carteret  
Middlesex County, New Jersey

### Legend

 Site Location

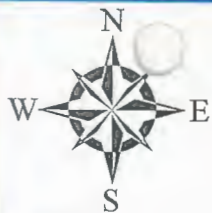


## 2007 NJDEP AERIAL MAP

File Name: AERIAL  
Project No.: KE12017  
Prepared By: MSY  
Date: 11/26/12

Note:  
This map was developed using New Jersey Department of  
Environmental Protection Geographic Information System digital  
data, but this secondary product has not been verified by NJDEP  
and is not state-authorized.





Rahway Arch Properties -  
Site Remediation  
Block 602, Lots 1 & 8, Block 603, Lot 1,  
Block 705, Lots 17 & 18  
Borough of Carteret  
Middlesex County, New Jersey

## Legend

— Site Location

 SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE AE Base Flood Elevations determined.

 FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachments so that the 1% annual chance flood can be carried without substantial increases in flood heights.

(EL 987) Base Flood Elevation value where uniform within zone; elevation in feet\*



**FEMA FIRMS**  
FIRMS: 34023C0076F, 34023C0077F,  
34023C0078F, & 34023C0079F

File Name: AERIAL  
Project No.: KE12017  
Prepared By: MSY  
Date: 11/26/12

Note:  
This map was developed using New Jersey Department of Environmental Protection Geographic Information System digital data, but this secondary product has not been verified by NJDEP and is not state-authorized.